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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-108

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC

Pursuant to the authority vested in the Air Resources Board by Sections 43162 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Caterpilar Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

		Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
Engine Family VCP442DZDAAK	7.1	(442)	Turbocharger Charge Air Cooler Engine Control Module Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for the engine family in grams per brake horsepower-hour:

engine family "	grams po		
-	Carbon Mon <u>oxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
<u>Hydrocarbons</u>		5.0	0.10
1.3	15.5		decion values for

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

family in grams	per brake norseponer	Carbon	Nitrogen	- +05
Engine	Hydrocarbons	Monoxide	Oxides	Part is it ites
<u>Family</u>		0.8	4.7	15 (1)
VCP442DZDAAK	0.1	V. 5		

BE IT FURTHER RESOLVED: That for the listed engine models, the manus carer has submitted the materials to demonstrate certification compliance at the Board's emission control system warranty provisions (Title 13, California) Code of Regulations, Section 2035 et seq.).

CATERPILLAR, INC.

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

R.)B. Summerfield, Chief
Mobile Source Operations Division

Page	ı	of	1
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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cat	Caterpillar Inc.		ily	VCP442DZDAAK		
Displacement		7.1 /	Liters	442	2. /	/ Cubic Inches	
Maximum Rated Pow	er: 3	30 J	HP @ 240	0 RPM	Engine Co	onfiguration: <u>16</u>	
Ignition: Compression			Compression with C	Glow Plug	S	park	
Fuel Type (s): Dedic		Flex-Fuel	•	Diesel	X M100	M85	
1 doi 1 jpo (b). 2	_	-	LNG LPG	Other (speci	fy)		
Diesel Cert Fuel: 13CCR 2282 Primary Intended Service Class:			86.1313-90		40 CFR 86.131	3-94 X	
			LHD MHD X		Urbai	. Bur.	
Exhaust ECS (incl.		-	ECM, TC, OC	_ _	_ 		
Exhaust Deb (mei.	1.2.1, 1.0, 0.1.0,		(Use abbreviations	per SAE J1930 SE	P91)		
Engine Model	Rated HP	Fuel R @ Rated mm³/stu	i HP & Inject	tor ECM/PCM	l l	FOX / Citalytic	
(Eng. Code)	@ RPM	(lbs/b		0.		Part No.	
3126 - 1	330 @ 240	0 149 (11	9.9) 116-71.	50 132-4427	7	1::4-4821	
ISSUE DATE			09 SE	PT 96			
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